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10/672,212	09/26/2003	Maurice Smith	34171	2888
23589 Hovey Willian	7590 04/26/201 ns LLP	EXAMINER		
10801 Mastin Blvd., Suite 1000 Overland Park, KS 66210			RIVIERE, HEIDI M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)	
10/672,212	SMITH ET AL.	
Examiner	Art Unit	
HEIDI RIVIERE	3689	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address ~ Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Enterestors of time may be available under the proteins of 37 CPR 1.136(a). In or owert, to work may a roby the timely filed  I INO period for reply is specified above, the maximum statutory period will apply and will expire SIX (0) MONTHS from the mating date of this communication.  Failure to regly within the set or excended period for reply will, by statuto in become ABANDOCED (38 U.S.C.§ 130).  Ary reply received by the Office later than these months after the mailing date of this communication, even if smelly filed, may reduce any counted patriot to become ABANDOCED (38 U.S.C.§ 130).  Ary reply received by the Office later than these months after the mailing date of this communication, even if smelly filed, may reduce any counted patriot become ABANDOCED (38 U.S.C.§ 130).  Ary reply received by the Office later than these months after the mailing date of this communication, even if smelly filed, may reduce any counted patriot be made and the set of this application is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) FiNAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) Side and 12-14 is/are repending in the application.  5) Claim(s) Side and 12-14 is/are rejected.  7) Claim(s) Side and 12-14 is/are rejected.  8) Claim(s) Side and 12-14 is/are rejected to be smaller.  Application Papers  9) The specification	TIED THE COST				
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of them may be wasuable under the provision of 37 CFR 1.136(a). In one worth, however, may a reply be timely litted after SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended above, the manumal statutory and statutory in the set of the					
1) ☐ Responsive to communication(s) filed on @9 February 2011. 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s)	WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3°C FRI 1,136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If NO period or reply is packed above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the maining date of this communication, even if it interly filed, may reply and any other states.				
2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-4.6-9 and 12-14 is/are pending in the application.  4a) Of the above claim(s)	Status				
4) ⊠ Clalm(s) 1-4,6-9 and 12-14 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are objected to.  8) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	2a) This action is <b>FINAL</b> . 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
4a) Of the above claim(s) is/are allowed.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are allowed.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Disposition of Claims				
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a),  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some or None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are allowed.  7) ☐ Claim(s) is/are objected to.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Application Papers				
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No.  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
a) All b) Some * c) None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No.  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Priority under 35 U.S.C. § 119				
	a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				

Attachment(s)	
Notice of References Cited (PTO-892)     Notice of Craftsperson's Fatent Drawing Feview (PTO-842)	Interview Summary (PTO-413)     Paper No(s)/Mail Date
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	Notice of Informal Patent Application     Other:

Art Unit: 3689

#### DETAILED ACTION

## Response to Arguments

Applicant's arguments filed 9 February 2011 have been fully considered but they 1 are not persuasive.

Applicant's arguments make note of the current amendments to the claims. 2.

These amendments are acknowledged and they are taught by the references previously

presented. Please note the rejections below are updated to reflect this. Therefore the

rejections are not withdrawn.

## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1,148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows: 1. Determining the scope and contents of the prior art. 2. Ascertaining the differences between the prior art and the claims at issue. 3. Resolving the level of ordinary skill in the pertinent art. 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 3689

3. Claims 1, 2, 4, and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wyatt (US 6490530) in view of Barnes (US 6/422,508).

- 2. With respect to claim 1, (Currently Amended) Wyatt discloses the steps of:
  - b. generating a report with the control unit (Wyatt: detector stations capable of measuring and classifying aerosol particles, col. 8 lines 34 -44 and a need for spectroscopic techniques was recognized in the early 1970's, col. 3, lines 5-10, col. 12, lines 20-25, "The CPU will collect and process such identification or classification results to determine other aerosol particle properties following the on-board CPU instructions." and col. 14, lines 3-11, "Such information includes estimates of threat characteristics..." and detector stations capable of measuring and classifying aerosol particles, col. 8 lines 34 44 and "detector stations," are capable of performing a set of scattered light measurements by which the target aerosol particles are well classified and/or identified, one-at-a-time, at each locale where they are detected. Col. 5, lines 25-29):
  - c. uploading the report, via the control unit, to a secure remote server via a system chosen from the group consisting of a cell phone network and a satellite phone network (Wyatt: detector stations capable of measuring and classifying aerosol particles, and reporting all processed data via integrated telecommunications to a central control station, col. 8 lines 29-45 and col. 3, lines 36-52, "communications/telemetry module") (See also, American Heritage Dictionary "n. The Science and technology of automatic measurement and

Art Unit: 3689

transmission of data by wire, radio, or other means from remote sources, as from space vehicles, to receiving stations for recording and analysis");

- notifying, via the control unit, at least some members of a hierarchy authorities, wherein the evaluation authorities, including threat response authorities and evaluation authorities, include, including a plurality of experts having knowledge relevant to making a high-level threat assessment (interpreted to be the sending of threat analyses to various civil, police, emergency and other agencies responsible for population health and safety throughout and surrounding the monitored region, col. 13 line 65 - col. 14 line 3 - telemetry means used; col. 10, lines 25-40 "the telemetry means incorporated into each detector station permits data processed by the detector station's on-board computer to be transmitted in real time to the central station that monitors the evolution of the reports received from the individual stations, makes judgments as to the extent of the aerosol threat, if any, and determines the type of warning required for each region specified as protected. The central station can transmit commands to each or any of the detector stations to change local data acquisition rates and modify duty cycler, as needed. The central station also can modify data processing protocols, i.e. the analytical software on-board each detector station.") (Examiner notes that these agencies are response and evaluation authorities.); and
- instructing at least some members of the hierarchy of authorities, via the control unit, to access the report on the remote server via a wide area network

Art Unit: 3689

(interpreted to be the access of various respective threat analyses by civil, police, emergency and other agencies responsible for population health and safety throughout and surrounding the monitored region through telemetry means, Wyatt: col. 13 line 65 - col. 14 line 3; col. 10, lines 25-40 "the telemetry means incorporated into each detector station permits data processed by the detector station's on-board computer to be transmitted in real time to the central station that monitors the evolution of the reports received from the individual stations, makes judgments as to the extent of the aerosol threat, if any, and determines the type of warning required for each region specified as protected. The central station can transmit commands to each or any of the detector stations to change local data acquisition rates and modify duty cycler, as needed. The central station also can modify data processing protocols, i.e. the analytical software on-board each detector station.") (Examiner notes that these agencies are response and evaluation authorities.).

Wyatt does teach generating a report and the citations above, Wyatt does not teach following, however **Barnes** teaches,

b. the report comprising the image and identification information regarding the substance as determined by the control unit; (Barnes: Col. 5, lines 35-67; col. 6, lines 15-40; col. 10, lines 20-50 – images are gathered, tracked and outputted; processed data is outputted (Col. 14, claim 26) and the system is also capable of "processing the data at the site or on a post mission basis for output back to an

Art Unit: 3689

aircraft, satellite, ground vehicle, maritime vehicle or ground station for additional analysis, processing review". (Col. 16, claim 34))

obtaining an image of a spectrograph of the substance with one or more remotely controllable sensing units comprising a mass spectrometer: transmitting the image of the spectrograph of the substance from the one or more remotely controllable sensing units to a control unit configured to automatically identify the substance by comparison analysis: (Barnes; col. 5, line 42 - col. 6 line 45 - "The system 20 of the present invention advantageously allows for gathering and tracking images. The system 20 preferably includes a vehicle mounting interface 21 positioned to be connected to a vehicle. The vehicle mounting interface includes a remotely steerable gimbal 30 which provides at least two axis of pivotal or rotational movement. A compact pod housing 25 is pivotally mounted to the vehicle mounting interface 21 and has at least one window 26, and more preferably a plurality of windows 26,27,28,29 as illustrated in FIGS. 1-6. A spectral sensor 40 is positioned on the steerable gimbal 30 within the pod housing 25 to thereby enable off-nadir scanning, target acquisition. target tracking and analysis of spectral data through the at least one window 26 of the pod housing 25."; col. 16, claim 34 - steps of digitally transmitting spectral data)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Wyatt and Barnes by including a report with images because it would provide details to be used in thwarting the plans of terrorist. Both

Art Unit: 3689

references teach the testing of substances. Wyatt teaches an aerosol hazard characterization and early warning network. The system monitors aerosol intrusions. The Barnes system teaches a system for robotic control of remote sensing units that gather imaging data. Unmanned vehicles are used which have stearable gimbal with spectral sensor mounted. The Barnes reference also notes that processed data is outputted (Col. 14, claim 26) and the system is also capable of "processing the data at the site or on a post mission basis for output back to an aircraft, satellite, ground vehicle, maritime vehicle or ground station for additional analysis, processing review". (Col. 16, claim 34) The Barnes system is used for counter-terrorism, counter-proliferation of weapons of mass destruction and rocket tracking for example (Barnes: col. 9).In summary, the collected data is processed and sent to the respective parties. It would be obvious to transmit such data in a report format.

Page 7

- 3. With respect to claim 2, (Previously Presented) Wyatt discloses a method of evaluating a threat posed by a substance, further including the steps of providing the remote server with evaluation tools for automatically evaluating, the report in light of other relevant data (interpreted to be the evaluation of the threat posed by and likely movement of the aerosol cloud by the central station, integrated with meteorological data, col. 13 lines 41 43, 51 54 and 60 63).
- 5. With respect to claim 4, (Previously Presented) Wyatt discloses evaluating a threat posed by a substance, further including the steps of providing the remote server with evaluation tools for automatically evaluating the report in light of other relevant data (Wyatt: interpreted to be the evaluation of the threat posed by and likely movement of

Art Unit: 3689

the aerosol cloud by the central station, integrated with meteorological data, col. 13 lines 41 - 43.51 - 54 and 60 - 63).

Page 8

- 6. With respect to claim 6, (Previously Presented) Wyatt discloses the response authorities are chosen from the group consisting of local first responders, state agencies, state departments, regional agencies, regional departments, national departments, and national agencies (Wyatt: interpreted to be the access of various respective threat analyses by civil, police, emergency and other agencies responsible for population health and safety throughout and surrounding the monitored region through telemetry means, col. 13 line 65 col. 14 line 3).
- 8. With respect to claim 7, (Previously Presented) Wyatt discloses the evaluation authorities include experts on subjects chosen from the group consisting of medical issues relating to exposure to biological substances, medical issues relating to exposure to biological substances, medical issues relating to exposure to biological substances, medical issues relating to exposure to radioactive substances, law, law enforcement, policy, doctrinal issues, historical cases, modeling, and simulation(Wyatt col. 13 line 65 col. 14 line 3: interpreted to be the access of various respective threat analyses by civil, police, emergency and other agencies responsible for population health and safety throughout and surrounding the monitored region through telemetry means,).
- 9. With respect to claim 8: (Previously Presented) Wyatt discloses all the above limitation, but does not explicitly disclose wherein the determining step is provided by a GPS device located on the remote sensing unit, communicating the actual geographic location to the control unit, however Barnes teaches:

Art Unit: 3689

• the image of the substance is a microscope-magnified image (Barnes: col. 5, line 42 - col. 6 line 45 - "The system 20 of the present invention advantageously allows for gathering and tracking images. The system 20 preferably includes a vehicle mounting interface 21 positioned to be connected to a vehicle. The vehicle mounting interface includes a remotely steerable gimbal 30 which provides at least two axis of pivotal or rotational movement. A compact pod housing 25 is pivotally mounted to the vehicle mounting interface 21 and has at least one window 26, and more preferably a plurality of windows 26,27,28,29 as illustrated in FIGS. 1-6. A spectral sensor 40 is positioned on the steerable gimbal 30 within the pod housing 25 to thereby enable off-nadir scanning, target acquisition, target tracking and analysis of spectral data through the at least one window 26 of the pod housing 25."; col. 16, claim 34 - steps of digitally transmitting spectral data)

It would have been obvious and predictable to one of ordinary skill in the art at the time of the invention to substitute the known step of magnifying a spectral image in order to result in the same image in larger form. This use of this system would still provide data acquisition from a remote place.

- 12. Claims 3 and 12-14 is also rejected under 35 U.S.C. 103(a) as being unpatentable over Wyatt in view of Barnes and further in view of Laufer (US 6/853,452 B1).
- 13. With respect to claims 3 and 13, (Currently Presented) Wyatt discloses a method of evaluating a threat posed by substance (reference provides an aerosol

Art Unit: 3689

hazard classification and early warning network, see abstract), the method comprising the steps of:

- A1) deploying a plurality of remote sensing units and a control unit adapted to automatically detect and identify the substance and to provide a corresponding report, wherein the report includes a magnified image of the substance (detector stations capable of measuring and classifying aerosol particles, col. 8 lines 34 44 and "detector stations," are capable of performing a set of scattered light measurements by which the target aerosol particles are well classified and/or identified, one-at-a-time, at each locale where they are detected. Col. 5, lines 25-29);
- g. uploading the report, via the control unit, to a remote server (detector stations capable of measuring and classifying aerosol particles, and reporting all processed data via integrated telecommunications to a central control station, col. 8 lines 29 - 45);
- notifying, via the control unit, the appropriate local reporting authority of the report in accord with the appropriate local reporting policy (threat analyses are sent to various civil, police and emergency agencies, col. 13 lines 65 - col. 14 line 3);
- j. determining, via the control unit, a hierarchy of threat evaluators, including a plurality of experts having knowledge relevant to making a high-level threat assessment (interpreted to be the sending of threat analyses to various civil, police, emergency and other agencies responsible for population health and

Art Unit: 3689

safety throughout and surrounding the monitored region, col. 13 line 65 - col. 14 line 3; col. 10, lines 25-40 "the telemetry means incorporated into each detector station permits data processed by the detector station's on-board computer to be transmitted in real time to the central station that monitors the evolution of the reports received from the individual stations, makes judgments as to the extent of the aerosol threat, if any, and determines the type of warning required for each region specified as protected. The central station can transmit commands to each or any of the detector stations to change local data acquisition rates and modify duty cycler, as needed. The central station also can modify data processing protocols, i.e. the analytical software on-board each detector station.")); and

Page 11

k. instructing at least some members of the hierarchy of threat evaluators to access the report on the remote server via a wide area network (interpreted to be the access of various respective threat analyses by civil, police, emergency and other agencies responsible for population health and safety throughout and surrounding the monitored region through telemetry means, col. 13 line 65 - col. 14 line 3; col. 10, lines 25-40 "the telemetry means incorporated into each detector station permits data processed by the detector station's on-board computer to be transmitted in real time to the central station that monitors the evolution of the reports received from the individual stations, makes judgments as to the extent of the aerosol threat, if any, and determines the type of warning required for each region specified as protected. The central

station can transmit commands to each or any of the detector stations to change local data acquisition rates and modify duty cycler, as needed. The central station also can modify data processing protocols, i.e. the analytical software on-board each detector station.").

Wyatt discloses all the above limitation, but does not explicitly disclose wherein the determining step is provided by a GPS device located on the remote sensing unit, communicating the actual geographic location to the control unit, however **Barnes** teaches.

- h. determining an actual geographic location of a remote sensing unit detecting the substance using the remote sensing unit, communicating the actual geographic location to the control unit, and identifying an appropriate local reporting authority and an appropriate local reporting policy based upon the actual geographic location of the remote sensing unit detecting the substance; (Barnes: col. 4, lines 35-45; col. 7, line 5- col. 8, line 35; col. 9; col. 11, lines1-42 A high capacity cable is attached to the vehicle "the cable can be customized or optimized for various types of communication standards as understood by those skilled in the art; system used for counterterrorism, counter proliferation of weapons etc.; global positioning system used (GPS) data used to computed spectral sensor location; programmed inputs via processing means which uses a GUI interface)
- a1. obtaining an image of the substance with one or more remotely controllable sensing units; a2. transmitting the image of the substance from

the one or more remotely controllable sensing units to a control unit configured to automatically detect and identify the substance and generate a corresponding report; (Barnes: col. 5, line 42 - col. 6 line 45 - "The system 20 of the present invention advantageously allows for gathering and tracking images. The system 20 preferably includes a vehicle mounting interface 21 positioned to be connected to a vehicle. The vehicle mounting interface includes a remotely steerable gimbal 30 which provides at least two axis of pivotal or rotational movement. A compact pod housing 25 is pivotally mounted to the vehicle mounting interface 21 and has at least one window 26, and more preferably a plurality of windows 26,27,28,29 as illustrated in FIGS. 1-6. A spectral sensor 40 is positioned on the steerable gimbal 30 within the pod housing 25 to thereby enable off-nadir scanning, target acquisition, target tracking and analysis of spectral data through the at least one window 26 of the pod housing 25."; col. 16, claim 34 - steps of digitally transmitting spectral data; Fig. 9 - pan and zooming of image)

Wyatt in view of Barnes does not teach, however Laufer teaches:

airdropping one or more remotely controllable sensing units into an area containing a potentially hazardous substance, wherein the remotely controllable sensing units are spherical with an off-set center of gravity, such that remotely controllable sensing units roll upon hitting ground to properly position various inlet and outlet ports associated with a sample collection mechanism of remote sensing units for sample collection; (Laufer: col. 31, line 64-col. 32, line

Art Unit: 3689

"ground sensors may be designed for airdrop deployment"; cols. 28-30 – imaging device used to detect substances)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Wyatt and Barnes by including a report with images because it would provide details to be used in thwarting the plans of terrorist. It would have been obvious and predictable to one of ordinary skill in the art at the time of the invention to combine the teachings of Wyatt, Barnes and Laufer because airdropping the vehicles would be part of the effort to protect human beings and do remote testing. Both references teach the testing of substances. Wyatt teaches an aerosol hazard characterization and early warning network. The system monitors aerosol intrusions. The Barnes system teaches a system for robotic control of remote sensing units that gather imaging data. Unmanned vehicles are used which have stearable gimbal with spectral sensor mounted. The Barnes reference also notes that processed data is outputted (Col. 14, claim 26) and the system is also capable of "processing the data at the site or on a post mission basis for output back to an aircraft, satellite, ground vehicle, maritime vehicle or ground station for additional analysis, processing review". (Col. 16, claim 34) The Barnes system is used for counter-terrorism, counterproliferation of weapons of mass destruction and rocket tracking for example (Barnes: col. 9). In summary, the collected data is processed and sent to the respective parties. It would be obvious to transmit such data in a report format.

14. With respect to claims 12 and 14 (New): Wyatt/Barnes teach the limitations cited in the rejection above. Wyatt/Barnes does not teach, however Laufer teaches the

image of the substance is an image of a spectrograph of the substance, including data points obtained by a mass spectrometer, a gas chromatograph, or an ion mobility spectrometer of the remotely controllable sensing units. (Laufer: Figures 4-5, and col. 3, lines 25-50 - "In remote sensor systems, hyperspectral or multispectral imaging techniques may be employed to provide an imaging capability. In hyperspectral imaging spectroscopy, spectrally and spatially resolved information is acquired to provide a two dimensional image of the distribution of chemicals targeted for detection. Hyperspectral images may be obtained by an imaging spectrometer, in which case a narrow strip in the FOV is imaged onto the front slit of the spectrometer. The dispersive element in the spectrometer creates a full spectrum for each point of the imaged line, thereby forming a two-dimensional pattern (wavelength vs. linear spatial position), which is recorded by a focal plane array (FPA) in the back plane of the spectrometer.")

It would have been obvious and predictable to one of ordinary skill in the art at the time of the invention to combine the teachings of Wyatt, Barnes and Laufer because gathering accurate data by way of images would be an essential party of the effort to protect human beings and do remote testing.

- 15. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wyatt as in view of Barnes and further in view of Ishizaka et al. (U.S. 5,077,010) (Hereinafter referred to as Ishizaka).
- 17. With respect to claim 9, (Previously Presented) Wyatt discloses the above method steps, Wyatt does not explicitly further comprising collecting the substance with

Page 16

Art Unit: 3689

a sample examination cassette including: a roll of filter paper for receiving the substance; a roll of film providing an impermeable barrier for isolating the substance; and an archive spool for collecting the roll of filter paper and the roll of film. However, Ishizaka teaches a long-test-film cassette for biochemical analysis and system for loading the same which teaches a roll of filter paper for receiving the substance (Ishizaka, Fig 1, item 7); a roll of film providing an impermeable barrier for isolating the substance (Ishizaka, Fig 1, item 3); and an archive spool for collecting the roll of filter paper and the roll of film (Ishizaka, Fig 1, item 2).

It would have been obvious and predictable to one of ordinary skill in the art at the time of the invention to combine the teachings of Wyatt, Barnes and Ishizaka because the ability to collect samples remotely and analyzed using the film speeds up the research process and fulfills the goal of protecting humans from the unknown..

Art Unit: 3689

### CONCLUSION

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heidi Riviere whose telephone number is 571-270-1831. The examiner can normally be reached on Monday-Friday 9:00am-5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janice Mooneyham can be reached on 571-272-6805. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3689

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Heidi Riviere/

Examiner, Art Unit 3689

/Janice A. Mooneyham/ Supervisory Patent Examiner, Art Unit 3689

Page 19

Art Unit: 3689